

eMPower™ME Work Station Readiness Check Memo

The bandwidth test results from the **System Check** within the Workstation Readiness test are an indicator of the effective download speeds between our test delivery data center and your location. These results take into consideration real world latencies that exist between your school and our data center. These results may vary from the speed tests available from third party services, as those services utilize servers closest to your physical network location or a CDN to measure the download speeds. The data collected from this test helps us to continuously analyze and fine-tune our test delivery capability to offer a reliable testing experience for your site.

When conducting Workstation Readiness testing at your site, please keep the following information in mind:

1. When students log in to take the Operational tests, the content for each session is downloaded upon clicking the "Continue" button on the session directions page. This is when the downstream bandwidth at your site will be used. Once the content has been downloaded to the student workstation, the application sends small payloads to the datacenter on the upstream bandwidth to collect and store student responses.
2. The System Check prompts you to enter the number of machines that will be used for testing at your site. This should be interpreted as the number of users that will be logging in to workstations and downloading the test within 60 seconds. The following formula provides further clarification:

To calculate the number of simultaneous students (x) that can start testing within a time frame (y) of 60 sec (used as an example), when all students click Continue at the same exact time on the clock:

- Bandwidth available in 60 (y) sec = (Your System Check Results)
Kbits/sec X 60 sec = 12000000 Kbits
 - Average Test Resource Size = 12160 Kbits (for example: 1.5 Megabyte, varies by test)
 - Number of Students (x) = $12000000 / 12160$ = (Result based on Your System Check Results)
3. As a best practice, we recommend staggering students starting the test. If your site has concerning bandwidth results from the System Check, staggering a group of students starting their test by 40-60 seconds will optimize the bandwidth available at your site.